

IN THE CLAIMS

Please cancel claims 1-10 and add new claims 11-29.

11. An injector for a fuel injection system for internal combustion engines, comprising
a high-pressure connection (3), wherein the high-pressure connection (3)
communicates hydraulically with an inflow conduit (13) via a bore (5),
a conduit (15) to the system pressure supply branching off from the bore (5), and
a bush (9) with a longitudinal bore (11) disposed in the bore (5),
the inflow conduit (13) being supplied with fuel from the high-pressure connection
(3) through the longitudinal bore (11) of the bush (9), and
the fuel inflow to the conduit (15) being effected outside the bush (9).

12. The injector of claim 11 wherein there is a play, in particular of 6 to 8 μm , between
the bore (5) and the bush (9).

13. The injector of claim 11 wherein on one end of the bush (9), the longitudinal bore
(11), bush (9) and bore (5) are sealed off from one another, and that in the region of
this end, the conduit (15) to the system pressure supply branches off from the bore (5).

14. The injector of claim 12 wherein on one end of the bush (9), the longitudinal bore
(11), bush (9) and bore (5) are sealed off from one another, and that in the region of
this end, the conduit (15) to the system pressure supply branches off from the bore (5).

15. The injector of claim 11 wherein both ends of the bush (9) are approximately equally spaced from the branching point of the conduit (15).

16. The injector of claim 12 wherein both ends of the bush (9) are approximately equally spaced from the branching point of the conduit (15).

17. The injector of claim 11 wherein the injector further comprising a leak fuel return line.

18. The injector of claim 17 wherein the leak fuel return line communicates with the conduit (15) to the system pressure supply.

19. The injector of claim 12 wherein the leak fuel return line communicates with the conduit (15) to the system pressure supply.

20. The injector of claim 13 wherein the leak fuel return line communicates with the conduit (15) to the system pressure supply.

21. The injector of claim 15 wherein the leak fuel return line communicates with the conduit (15) to the system pressure supply.

22. The injector of claim 17 further comprising a pressure holding valve (18) disposed in the leak fuel return line.

23. The injector of claim 18 further comprising a pressure holding valve (18) disposed in the leak fuel return line.

24. The injector of claim 11 wherein the pressure holding valve (18) maintains a minimum pressure, in particular of 15 to 20 bar, in the conduit (15) to the system pressure supply.

25. The injector of claim 13 wherein the pressure holding valve (18) maintains a minimum pressure, in particular of 15 to 20 bar, in the conduit (15) to the system pressure supply.

26. The injector of claim 15 wherein the pressure holding valve (18) maintains a minimum pressure, in particular of 15 to 20 bar, in the conduit (15) to the system pressure supply.

27. The injector of claim 17 wherein the pressure holding valve (18) maintains a minimum pressure, in particular of 15 to 20 bar, in the conduit (15) to the system pressure supply.

28. The injector of claim 11 wherein the injector has a piezoelectric actuator.

29. The injector of claim 28 characterized in that in the injector between the piezoelectric actuator and a control valve, a hydraulic booster is present, which is filled via the conduit (15) to the system pressure supply.